

EXXON CHEMICAL AMERICAS**8EHQ-0896-13718**RECEIVED
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Safety and Environmental Affairs Department
L. E. Schmaltz
MANAGER, SAFETY PROGRAMS

August 19, 1996



8EHQ-96-13718

Document Processing Center (7407)
Attn: TSCA Section 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460-0001

Contains No CBI

RECEIVED
OCT 21 1996
DEPT NCIC50
96 AUG 21 1996
11:11:32**Supplemental Information re Notice of Substantial Risk Under TSCA §8(e)**

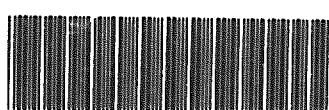
Dear Sir or Madam:

In response to a Notice of Substantial Risk submitted under § 8(e) of the Toxic Substances Control Act (TSCA) for skin sensitization on a normal (linear) predominantly C₁₅ Paraffinic Hydrocarbon (CASRN 64771-72-8), Exxon Chemical is pleased to submit a 21-day cumulative irritancy assay and definitive dermal sensitization study on this hydrocarbon to supplement the docket for an earlier TSCA § 8(e) notice filed on April 27, 1993. We are not aware of the 8EHQ file number assigned to that report, which was filed with significant CBI.

The irritation study on C₁₅ Paraffinic Hydrocarbon determined the highest non-irritating concentration for use in a human repeated insult patch test (HRIPT). The HRIPT showed no evidence of irritation or allergic contact dermatitis. In summary, the results of this study alleviate concern for sensitization that prompted the original TSCA § 8(e) submission. The completed reports entitled "21 Day Cumulative Irritancy Assay (CIA) with Delayed Challenge For Allergic Contact Dermatitis" and "Modified Draize Skin Sensitization Study" are enclosed for your information.

BACKGROUND

In April 1993, under the provisions of Section 8 (e) of the Toxic Substances Control Act, the U.S. EPA was informed about the finding of apparent skin sensitization in a human repeated insult patch test using a normal (linear) predominantly C₁₅ Paraffinic Hydrocarbon. Ninety-three of 103 individuals developed skin reactions following repeated exposure to a 25% concentration of this hydrocarbon. In an attempt to verify this very potent sensitization response, a second lot of C₁₅ Paraffinic Hydrocarbon was applied to 12 positive responders from the 103-person panel. In this study, the substance under test did not produce a reaction in any individual after 72 hours. Chemical analysis revealed a technical error in the preparation of test material dilutions. The 25% test material dilution for the challenge phase was determined to actually contain 63.6% C₁₅ Paraffinic Hydrocarbon. Based on these data, it was not possible to determine whether these dermal responses were the result of cumulative irritation and/or sensitization. Nevertheless, these findings were unexpected based on previous animal studies conducted by Exxon, which did not indicate any skin sensitization potential for normal paraffinic hydrocarbons.



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In order to provide a definitive answer to the TSCA 8 (e) submission, Exxon initiated an independently-conducted human repeated insult patch test dermal sensitization study on a normal predominantly C₁₅ Paraffinic Hydrocarbon.

SUMMARY OF THE EXXON-SPONSORED HUMAN REPEATED INSULT PATCH TEST (HRIPT)

A study was conducted by an independent and recognized expert in the field of toxicological dermatology and skin sensitization testing. The purpose of the HRIPT was to evaluate the sensitization potential of a normal paraffinic hydrocarbon using the modified Draize procedure outlined by F. Marzulli and H. Maibach (1977).

A 21-day cumulative irritancy assay (CIA) with delayed challenge was conducted to determine the test concentration for the HRIPT and to evaluate the relative irritancy potential of the hydrocarbon. Four dilutions of test material (5, 10, 25, 75%) were evaluated using a panel of 25 human subjects. Each dilution was applied 5 days per week for 21 days to the same respective test site. Results from the CIA indicated a 75% dilution of the hydrocarbon was a cumulative irritant and was not appropriate for use in the sensitization study. No dermal irritation was observed with the 5, 10, or 25% dilutions. The highest non-irritating concentration (i.e., 25% dilution) was therefore chosen for use in the HRIPT.

The HRIPT dermal sensitization assay was conducted on a panel of 105 individuals using a 25% dilution of the paraffinic hydrocarbon for both induction and challenge phases. During the induction phase, occlusive patches containing approximately 0.2 ml of test material were applied to the upper arms or backs of each panelist three times a week for three weeks. Dermal observations were scored after 48 or 72 hours of exposure. Following a two week rest period, the challenge phase was conducted using a single occlusive patch containing a 25% dilution of the paraffinic hydrocarbon which was applied to a previously unpatched site for 72 hours. Reactions to this challenge application were scored 96 hours after application.

CONCLUSION

Results of the HRIPT study indicate no evidence of irritation, or of the induction or elicitation of allergic contact dermatitis in any of the 105 panelists. On the basis of these findings, the paraffinic hydrocarbon was determined not to be a human skin sensitizer. Therefore, while dermal exposure to paraffinic hydrocarbons should be avoided, dermal exposure does not pose a hazard for sensitization effects.

If there are any questions or comments, please contact Mr. Harry L. Hunter at 713-870-6874 or Mr. David D. Sigman at 713-870-6149.

Sincerely yours,



Harry L. Hunter, Jr.

Attachment

21 DAY CUMULATIVE IRRITANCY ASSAY (CIA)
with DELAYED CHALLENGE
FOR ALLERGIC CONTACT DERMATITIS

NORPAR 15

PURPOSE: To determine the relative irritancy potential (if any) of the test articles. A delayed challenge with a non-irritating dose will be utilized to ascertain if sensitization developed.

TEST MATERIALS: Test and control articles, as indicated, are furnished by the sponsor. They are identified:

Site #1	5% Norpar 15 in Mineral Oil
#2	10% Norpar 15 in Mineral Oil
#3	25% Norpar 15 in Mineral Oil
#4	75% Norpar 15 in Mineral Oil
#5	Vaseline Intensive Care Lotion (as is)
#6	Mineral Oil (Lot #0923-2492-16)

STORAGE CONDITIONS: Room Temperature (68-72°F)

PREPARATION FOR DOSING: 75%, 25%, 10% and 5% Norpar in Mineral Oil

SPONSOR: Exxon Biomedical Sciences
Mettlers Road, CN 2350
East Millstone NJ 08875-2350

TESTING FACILITY: Howard I. Maibach, M.D.
San Francisco, CA 94143-0989

STARTING DATE: July 14, 1995

COMPLETION DATE: August 18, 1995

STUDY MONITOR: Dr. Deborah A. Barsotti

SUBJECTS: A group of 25 subjects were recruited, all over the age of 18. Prior to acceptance into the study, all subjects were examined and deemed to be free of any active skin pathology. Medical histories and consent forms were obtained from all subjects.

METHOD: The method is that summarized by Phillips et al (Toxic and Applied Pharmacology 21:369-382, 1972). The fresh materials are applied 5 days weekly for 21 days to the same site. Patches are not reapplied on weekends (or holidays); they remain in place for these periods. There are 15 days of reading, even when holidays intervene.

All individuals received all test concentrations.

The chambers were separated by more than 2 cm., depending on the height of the volunteer.

The delayed challenge is week 6.

The delayed challenge utilized what is deemed a non-irritating concentration of Norpar 15, utilizing the same patch.

**21 DAY CUMULATIVE IRRITANCY ASSAY (CIA)
with DELAYED CHALLENGE
FOR ALLERGIC CONTACT DERMATITIS**

If positives are identified on challenge, the operational definition of allergic contact dermatitis (retest, serial dilutions and Provocative Use Test (PUT) will be performed to ascertain if irritation or allergic in nature.

The patch is an occlusive plastic chamber (Hilltop, Cincinnati, OH) held in place with paper tape (Scanpore, Norgeplaster, Oslo).

Readings are made at each removal of the patch on a 0-4 scale.

The scoring scale employed is as follows:

0 = negative

+ = equivocal reaction (0.5)

1 = erythema

2 = erythema and induration

3 = erythema, induration and vesicles

4= bullae

Any site which reaches a level of 2 (erythema + edema) is discontinued.

REPORT: The report includes daily and cumulative scores.

NOTE: This study was run according to the principals of GCP.

DATA RETENTION: The raw data and the original of the final report will be on file at the laboratory for not less than two years. Unused test articles will be returned to sponsor unless otherwise requested; dilutions will be destroyed.

RESULTS: These are attached.

COMMENT: 75% Norpar was a cumulation irritant. The data should be interpreted relative to the appropriate control(s). On challenge one subject had erythema only (75%). On retest, this was negative.

These samples did not induce (or elicit) allergic contact dermatitis.



Study Director

September 1, 1995
(DATE)

21 DAY IRRITANT W/ CHALLENGE

STUDY:	HIM95-E-I-1	
SPONSOR:	EXXON	EXXON
INVESTIGATOR:	HOWARD MAIBACH,M.D.	HIM95-E-I-1 HOWARD MAIBACH,M.D. 7/14/95 - 8/18/95
DATE:	7/14/95 - 8/18/95	

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

26 SUBJECTS STARTED TEST
22 SUBJECTS FINISHED TEST

21 DAY IRRITANT W/CHALL

SPONSOR:

STUDY:

INVESTIGATOR:

DATE:

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

SUMMARY - INDUCTION

	SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
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SUB#

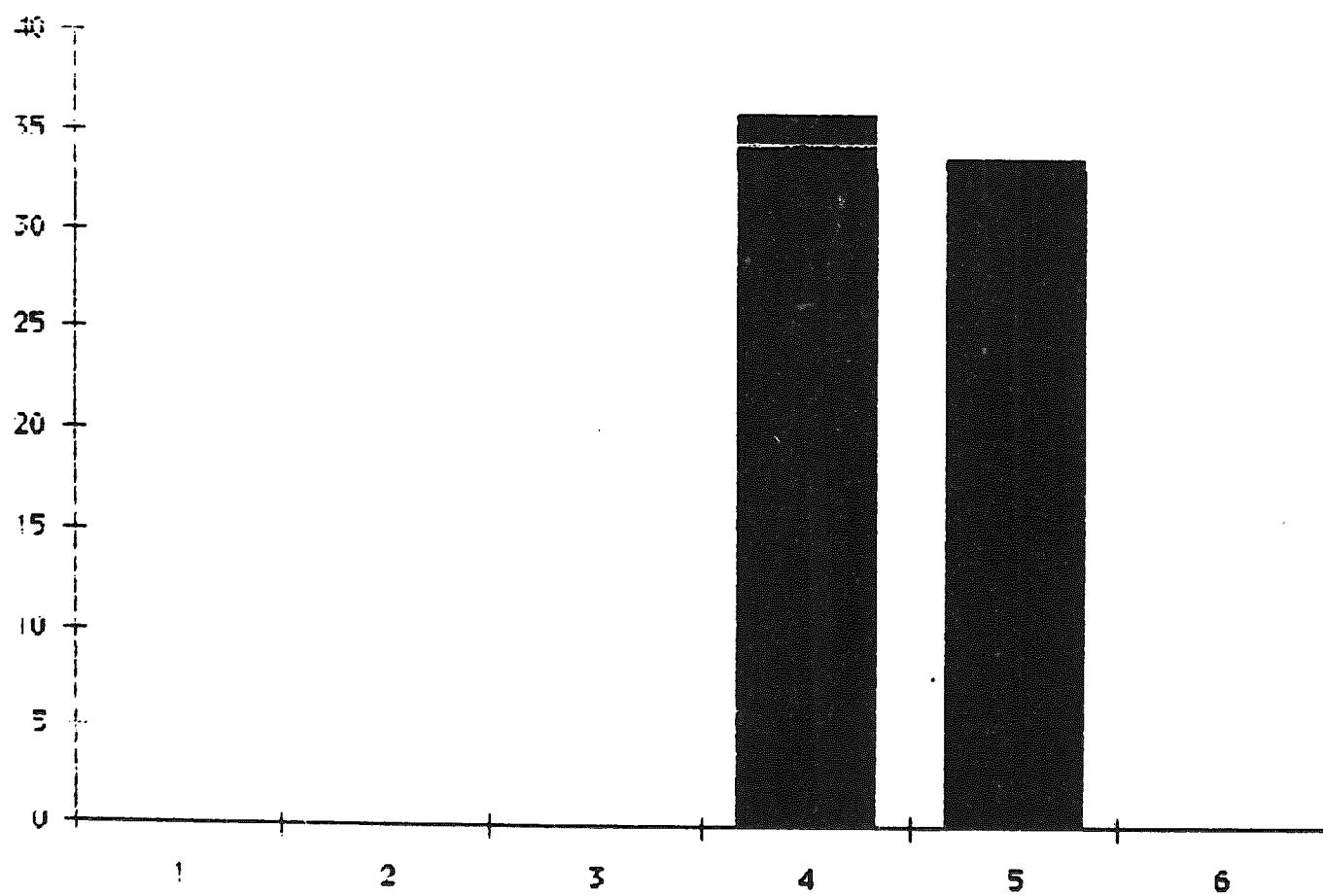
1 DS	0	0	0	0	0	0
2 AS	0	0	0	0	0	0
3 RP	0	0	0	0	0	0
4 KM	0	0	0	0	0	0
5 VH	0	0	0	1.5	0	0
6 AH	0	0	0	0	0.5	0
7 BS	0	0	0	1.5	0	0
8 EF	0	0	0	0	8	0
9 RV	0	0	0	0	0	0
10 HI	0	0	0	0	0	0
11 MR	0	0	0	0	0	0
12 JH	0	0	0	0	0	0
13 HH	0	0	0	0	0	0
14 JK	0	0	0	0	0	0
15 EM	0	0	0	0	0	0
16 KH		CANCEL				
17 BO	0	0	0	0	8.5	0
18 LW	0	0	0	0	1	0
19 EB		CANCEL				
20 PH		CANCEL				
21 IM	0	0	0	0	0	0
22 YZ	0	0	0	6	6	0
23 MR	0	0	0	0	0	0
24 RR		CANCEL				
25 LP	0	0	0	27	10	0
26 HR	0	0	0	0	0	0

TOTAL

0	0	0	36	34	0
0	0	0	5.82	3.24	0

STDEV

REPOSITES-SITES-INDUCTION



21 DAY IRRITANT W/CHALL

SPONSOR: EXXON

STUDY: HIM95-E-I-1

INVESTIGATOR: HOWARD MAIBACH

DATE: 7/14/95 - 8/18/9

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

SUMMARY - CHALLENGE

SUB#

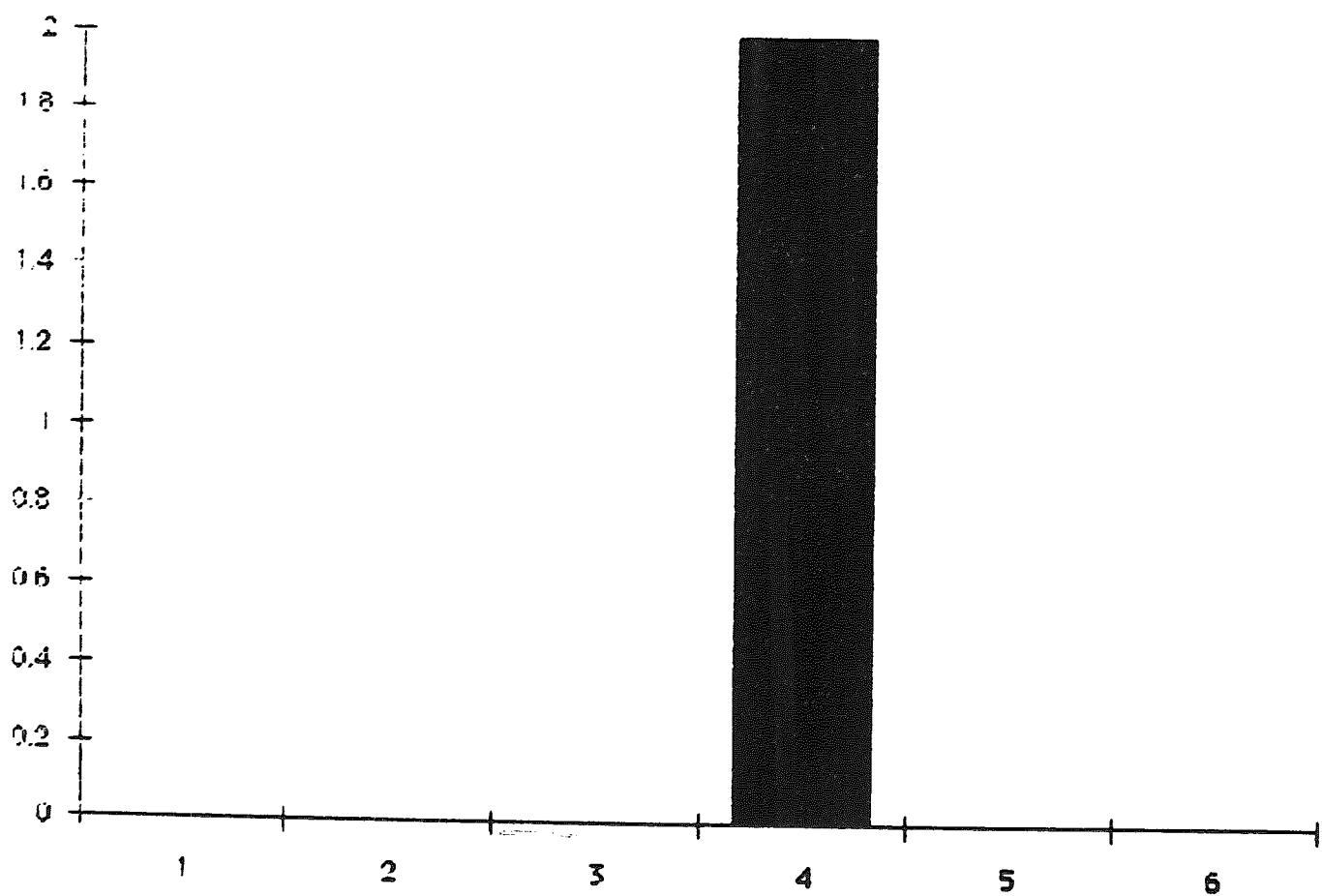
	SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
--	--------	--------	--------	--------	--------	--------

1 DS	0	0	0	0	0	0
2 AG	0	0	0	0	0	0
3 RP	0	0	0	0	0	0
4 KM	0	0	0	0	0	0
5 VH	0	0	0	0	0	0
6 AH	0	0	0	0	0	0
7 BS	0	0	0	0	0	0
8 FF	0	0	0	0	0	0
9 RV	0	0	0	0	0	0
10 HI	0	0	0	0	0	0
11 MR	0	0	0	0	0	0
12 JH	0	0	0	0	0	0
13 HH	0	0	0	0	0	0
14 JK	0	0	0	0	0	0
15 EM	0	0	0	0	0	0
16 KH		CANCEL				
17 BU	0	0	0	0	0	0
18 LW	0	0	0	0	0	0
19 EB		CANCEL				
20 PH		CANCEL				
21 IM	0	0	0	0	0	0
22 YZ	0	0	0	0	0	0
23 MP	0	0	0	2	0	0
24 RR		CANCEL				
25 LP	0	0	0	0	0	0
26 HR	0	0	0	0	0	0

TOTAL
STDEV

0	0	0	2	0	0
0	0	0	0.43	0	0

RESPONSE TO SITES-CHALLENGE



21 DAY IRRITANT TEST

SPONSOR: EXXON

SBJ: #108

STUDY: HIM95-E-I-1

AGE: 51

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: W

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0	0
6	7/24/95	0	0	0	0	0	0	0
7	7/25/95	0	0	0	0	0	0	0
8	7/26/95	0	0	0	0	0	0	0
9	7/27/95	0	0	0	0	0	0	0
10	7/28/95	0	0	0	0	0	0	0
11	7/31/95	0	0	0	0	0	0	0
12	8/1/95	0	0	0	0	0	0	0
13	8/2/95	0	0	0	0	0	0	0
14	8/3/95	0	0	0	0	0	0	0
15	8/4/95	0	0	0	0	0	0	0
TOTAL			0	0	0	0	0	0

CHALLENGE

8/14/95
8/17/95
8/18/95

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

SUB: #2 AS

STUDY: HIM95-E-I-1

AGE: 75

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: W

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16

VISUAL SCORE

DAY	DATE	PATCH	SITE	SITE	SITE	SITE	SITE	SITE
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0	0
6	7/22/95	0	0	0	0	0	0	0
7	7/23/95	0	0	0	0	0	0	0
8	7/26/95	0	0	0	0	0	0	0
9	7/27/95	0	0	0	0	0	0	0
10	7/28/95	0	0	0	0	0	0	0
11	7/31/95	0	0	0	0	0	0	0
12	8/1/95	0	0	0	0	0	0	0
13	8/2/95	0	0	0	0	0	0	0
14	8/3/95	0	0	0	0	0	0	0
15	8/4/95	0	0	0	0	0	0	0
TOTAL			0	0	0	0	0	0

CHALLENGE

2/14/93

5/17/95

8/18/95

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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28 DAY IRRITANT TEST

SEJ 43 RP

AGE: 21

TRACE: H

SER. II.

SPONSOR: EXXON

STUDY: HIM95-E-1-1

INVESTIGATOR: HOWARD MAIBACH, M.D.

DATE: 7/14/95 - 8/18/95

FORMULATION IDENTIFICATION

217

- 1 5% NORPAR IN MINERAL OIL
 - 2 10% NORPAK IN MINERAL OIL
 - 3 25% NORPAR IN MINERAL OIL
 - 4 75% NORPAR IN MINERAL OIL
 - 5 VASELINE INTENSIVE CARE AS IS
 - 6 MINERAL OIL (LOT # U923-2492-16)

VISUAL SCORE

CHALLENGE

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TUTAI

21 DAY IRRITANT TEST

SPONSOR: EXXON

SUB: #4 KM

STUDY: HIM95-E-I-1

AGE: 39

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: W

DATE: 7/14/95 - 8/18/95

SEX: F

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0	0
6	7/24/95	0	0	0	0	0	0	0
7	7/25/95	0	0	0	0	0	0	0
8	7/26/95	0	0	0	0	0	0	0
9	7/27/95	0	0	0	0	0	0	0
10	7/28/95	0	0	0	0	0	0	0
11	7/31/95	0	0	0	0	0	0	0
12	8/1/95	0	0	0	0	0	0	0
13	8/2/95	0	0	0	0	0	0	0
14	8/3/95	0	0	0	0	0	0	0
15	8/4/95	0	0	0	0	0	0	0
TOTAL			0	0	0	0	0	0
CHALLENGE			*	*	*	*	*	*
	8/14/95	0	0	0	0	0	0	0
	8/17/95	0	0	0	0	0	0	0
	8/18/95	0	0	0	0	0	0	0
TOTAL			0	0	0	0	0	0

21 DAY IRRITANT TEST

SPONSOR: EXXON

SUBJ. #5VH

STUDY: HIM95-E-1-1

AGE: 42

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: H

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95		*	*	*	*	*	*
1	7/17/95		0	0	0	0	0	0
2	7/18/95		0	0	0	0	0	0
3	7/19/95		0	0	0	0	0	0
4	7/20/95		0	0	0	0	0	0
5	7/21/95		0	0	0	0	0	0
6	7/24/95		0	0	0	0	0	0
7	7/25/95		0	0	0	0	0	0
8	7/26/95		0	0	0	0	0	0
9	7/27/95		0	0	0	0	0	0
10	7/28/95		0	0	0	0	0	0
11	7/31/95		0	0	0	0	0	0
12	8/1/95		0	0	0	0	0	0
13	8/2/95		0	0	0	0.5	0	0
14	8/3/95		0	0	0	0.5	0	0
15	8/4/95		0	0	0	0.5	0	0
TOTAL			0	0	0	1.5	0	0
CHALLENGE			*	*	*	*	*	*
	8/14/95		0	0	0	0	0	0
	8/17/95		0	0	0	0	0	0
	8/18/95		0	0	0	0	0	0
TOTAL			0	0	0	0	0	0

21 DAY IRRITANT TEST

SPONSOR: EXXON

SUBJ: #6 AH

STUDY: HIM95-E-1-1

AGE: 50

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: W

DATE: 7/14/95 - 8/18/95

SEX: F

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16

VISUAL SCORE

	SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
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DAY DATE PATCH

0 7/14/95
 1 7/17/95
 2 7/18/95
 3 7/19/95
 4 7/20/95
 5 7/21/95
 6 7/24/95
 7 7/25/95
 8 7/26/95
 9 7/27/95
 10 7/28/95
 11 7/31/95
 12 8/1/95
 13 8/2/95
 14 8/3/95
 15 8/4/95

	*	*	*	*	*	*
0	0	0	0	0	0	0
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	0	0
12	0	0	0	0	0	0
13	0	0	0	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0.5	0
TOTAL	0	0	0	0	0.5	0

CHALLENGE

8/14/95
 8/17/95
 8/18/95

	*	*	*	*	*	*
8/14/95	0	0	0	0	0	0
8/17/95	0	0	0	0	0	0
8/18/95	0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

SUBJ: #783

STUDY: HIM95-E-I-1

AGE: 39

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: W

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/15/95	0	0	0	0	0	0	0
2	7/16/95	0	0	0	0	0	0	0
3	7/17/95	0	0	0	0	0	0	0
4	7/18/95	0	0	0	0	0	0	0
5	7/19/95	0	0	0	0	0	0	0
6	7/20/95	0	0	0	0	0	0	0
7	7/21/95	0	0	0	0	0	0	0
8	7/22/95	0	0	0	0	0	0	0
9	7/23/95	0	0	0	0	0	0	0
10	7/24/95	0	0	0	0	0	0	0
11	7/25/95	0	0	0	0	0	0	0
12	7/26/95	0	0	0	0	0	0	0
13	7/27/95	0	0	0	0.5	0	0	0
14	7/28/95	0	0	0	0.5	0	0	0
15	7/29/95	0	0	0	0.5	0	0	0
TOTAL			0	0	0	1.5	0	0

CHALLENGE

8/14/95	*	*	*	*	*	*
8/15/95	0	0	0	0	0	0
8/16/95	0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

SUB: #8 EF

STUDY: HIM95-E-I-1

AGE: 54

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: H

DATE: 7/14/95 - 8/18/95

SEX: F

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0	0
6	7/24/95	0	0	0	0	0	0	0
7	7/25/95	0	0	0	0	0	0	0
8	7/26/95	0	0	0	0	1	0	0
9	7/27/95	0	0	0	0	1	0	0
10	7/28/95	0	0	0	0	1	0	0
11	7/31/95	0	0	0	0	1	0	0
12	8/1/95	0	0	0	0	1	0	0
13	8/2/95	0	0	0	0	1	0	0
14	8/3/95	0	0	0	0	1	0	0
15	8/4/95	0	0	0	0	1	0	0
TOTAL			0	0	0	0	6	0

CHALLENGE

8/14/95

8/17/95

8/18/95

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0 0 0 0 0 0

21 DAY IRRITANT TEST

SPONSOR: EXXON

SUBJ: #9RV

STUDY: HIM95-E-I-1

AGE: 34

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: H

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	VISUAL SCORE					
			SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0	0
6	7/24/95	0	0	0	0	0	0	0
7	7/25/95	0	0	0	0	0	0	0
8	7/26/95	0	0	0	0	0	0	0
9	7/27/95	0	0	0	0	0	0	0
10	7/28/95	0	0	0	0	0	0	0
11	7/31/95	0	0	0	0	0	0	0
12	8/1/95	0	0	0	0	0	0	0
13	8/2/95	0	0	0	0	0	0	0
14	8/3/95	0	0	0	0	0	0	0
15	8/4/95	0	0	0	0	0	0	0
TOTAL			0	0	0	0	0	0

CHALLENGE

- 1 7/14/95
- 2 7/17/95
- 3 8/18/95

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

 SBJ: #10 HI
 AGE: 25
 RACE: H
 SEX: F

 STUDY: HIM95-E-I-1
 INVESTIGATOR: HOWARD MAIBACH,M.D.
 DATE: 7/14/95 - 8/18/95
FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16

VISUAL SCORE

		SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
DAY	DATE	PATCH	*	*	*	*	*
0	7/14/95		0	0	0	0	0
1	7/17/95		0	0	0	0	0
2	7/18/95		0	0	0	0	0
3	7/19/95		0	0	0	0	0
4	7/20/95		0	0	0	0	0
5	7/21/95		0	0	0	0	0
6	7/24/95		0	0	0	0	0
7	7/25/95		0	0	0	0	0
8	7/26/95		0	0	0	0	0
9	7/27/95		0	0	0	0	0
10	7/28/95		0	0	0	0	0
11	7/31/95		0	0	0	0	0
12	8/1/95		0	0	0	0	0
13	8/2/95		0	0	0	0	0
14	8/3/95		0	0	0	0	0
15	8/4/95		0	0	0	0	0
TOTAL			0	0	0	0	0

CHALLENGE

	*	*	*	*	*	*
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

SCJ: #11 MR

STUDY: HIM95-E-1-1

AGE: 66

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: H

DATE: 7/14/95 - 8/18/95

SEX: F

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORESITE SITE SITE SITE SITE
1 2 3 4 5 6

DAY DATE PATCH

0	7/14/95	
1	7/17/95	
2	7/18/95	
3	7/19/95	
4	7/20/95	
5	7/21/95	
6	7/24/95	
7	7/25/95	
8	7/26/95	
9	7/27/95	
10	7/28/95	
11	7/31/95	
12	8/1/95	
13	8/2/95	
14	8/3/95	
15	8/4/95	

TOTAL

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

CHALLENGE

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SDJ: *12 JH
AGE: 27
RACE: W
SEX: M

SPONSOR: EXXON

STUDY: HIM95-E-I-1
INVESTIGATOR: HOWARD MAIBACH,M.D.
DATE: 7/14/95 - 8/18/95

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0	0
6	7/24/95	0	0	0	0	0	0	0
7	7/25/95	0	0	0	0	0	0	0
8	7/26/95	0	0	0	0	0	0	0
9	7/27/95	0	0	0	0	0	0	0
10	7/28/95	0	0	0	0	0	0	0
11	7/31/95	0	0	0	0	0	0	0
12	8/1/95	0	0	0	0	0	0	0
13	8/2/95	0	0	0	0	0	0	0
14	8/3/95	0	0	0	0	0	0	0
15	8/4/95	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0	0	0

CHALLENGE

- 2/14/95
- 3/17/95
- 4/18/95

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

SUB: #13 MH

STUDY: HIM95-E-I-1

AGE: 52

INVESTIGATOR: HOWARD MAIBACH,M.D.

GRADE W

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16

VISUAL SCORE

DAY	DATE	PATCH	VISUAL SCORE					
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0	0
6	7/22/95	0	0	0	0	0	0	0
7	7/23/95	0	0	0	0	0	0	0
8	7/26/95	0	0	0	0	0	0	0
9	7/27/95	0	0	0	0	0	0	0
10	7/28/95	0	0	0	0	0	0	0
11	7/31/95	0	0	0	0	0	0	0
12	8/1/95	0	0	0	0	0	0	0
13	8/2/95	0	0	0	0	0	0	0
14	8/3/95	0	0	0	0	0	0	0
15	8/4/95	0	0	0	0	0	0	0
TOTAL			0	0	0	0	0	0

CHALLENGE

7/14/95	*	*	*	*	*
8/17/95	0	0	0	0	0
8/18/95	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

SUBJ: #14 JK

STUDY: HIM95-E-1-1

AGE: 42

INVESTIGATOR: HOWARD MAIBACH,M.D.

MARITAL: D

DATE: 7/14/95 - 8/18/95

SEX: F

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16

VISUAL SCORE

	SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
DAY	DATE	PATCH	*	*	*	*
0	7/14/95		0	0	0	0
1	7/17/95		0	0	0	0
2	7/18/95		0	0	0	0
3	7/19/95		0	0	0	0
4	7/20/95		0	0	0	0
5	7/21/95		0	0	0	0
6	7/24/95		0	0	0	0
7	7/25/95		0	0	0	0
8	7/26/95		0	0	0	0
9	7/27/95		0	0	0	0
10	7/28/95		0	0	0	0
11	7/31/95		0	0	0	0
12	8/1/95		0	0	0	0
13	8/2/95		0	0	0	0
14	8/3/95		0	0	0	0
15	8/4/95		0	0	0	0
TOTAL			0	0	0	0

CHALLENGE

- 1 7/14/95
- 2 7/17/95
- 3 7/18/95

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SUBJ. #15 EM

AGE: 24

RACE: H

SEX: M

SPONSOR: EXXON

STUDY: HIM95-E-I-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 7/14/95 - 8/18/95

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

		SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
DAY	DATE	PATCH	*	*	*	*	*
0	7/14/95		0	0	0	0	0
1	7/17/95		0	0	0	0	0
2	7/18/95		0	0	0	0	0
3	7/19/95		0	0	0	0	0
4	7/20/95		0	0	0	0	0
5	7/21/95		0	0	0	0	0
6	7/24/95		0	0	0	0	0
7	7/25/95		0	0	0	0	0
8	7/26/95		0	0	0	0	0
9	7/27/95		0	0	0	0	0
10	7/28/95		0	0	0	0	0
11	7/31/95		0	0	0	0	0
12	8/1/95		0	0	0	0	0
13	8/2/95		0	0	0	0	0
14	8/5/95		0	0	0	0	0
15	8/6/95		0	0	0	0	0
TOTAL			0	0	0	0	0

CHALLENGE

- 3/14/95
- 8/17/95
- 8/18/95

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

SBJ. #16 KH

STUDY: HIM95-E-I-1

AGE: 44

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: W

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LUT # 0923-2492-16

VISUAL SCORE

SITE	SITE	SITE	SITE	SITE	SITE
1	2	3	4	5	6

DAY DATE PATCH

0	7/14/95	
1	7/17/95	
2	7/18/95	
3	7/19/95	
4	7/20/95	
5	7/21/95	
6	7/24/95	
7	7/25/95	
8	7/26/95	
9	7/27/95	
10	7/28/95	
11	7/31/95	
12	8/1/95	CANCEL
13	8/2/95	
14	8/3/95	
15	8/4/95	

TOTAL**CHALLENGE**

8/14/95
8/17/95
8/18/95

TOTAL

21 DAY IRRITANT TEST

SPONSOR: EXXON

SUB: #1780

STUDY: HIM95-E-I-1

AGE: 76

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: H

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95		*	*	*	*	*	*
1	7/17/95		0	0	0	0	0	0
2	7/18/95		0	0	0	0	0	0
3	7/19/95		0	0	0	0	0	0
4	7/20/95		0	0	0	0	0	0
5	7/21/95		0	0	0	0	0	0
6	7/24/95		0	0	0	0	0	0
7	7/25/95		0	0	0	0	0.5	0
8	7/26/95		0	0	0	0	1	0
9	7/27/95		0	0	0	0	1	0
10	7/28/95		0	0	0	0	1	0
11	7/31/95		0	0	0	0	1	0
12	8/1/95		0	0	0	0	1	0
13	8/2/95		0	0	0	0	1	0
14	8/3/95		0	0	0	0	1	0
15	8/4/95		0	0	0	0	1	0
TOTAL			0	0	0	0	8.5	0

CHALLENGE

	*	*	*	*	*	*
	0	0	0	0	0	0
	0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SDJ *18 LW
AGE: 65
RACE: W
SEX: F

SPONSOR: EXXON
STUDY: HIM95-E-I-1
INVESTIGATOR: HOWARD MAIBACH,M.D.
DATE: 7/14/95 - 8/18/95

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% MOPPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95		*	*	*	*	*	*
1	7/15/95		0	0	0	0	0	0
2	7/16/95		0	0	0	0	0	0
3	7/17/95		0	0	0	0	0	0
4	7/18/95		0	0	0	0	0	0
5	7/19/95		0	0	0	0	0	0
6	7/20/95		0	0	0	0	0	0
7	7/21/95		0	0	0	0	0	0
8	7/22/95		0	0	0	0	0	0
9	7/23/95		0	0	0	0	0	0
10	7/24/95		0	0	0	0	0	0
11	7/25/95		0	0	0	0	0	0
12	7/26/95		0	0	0	0	0	0
13	7/27/95		0	0	0	0	0	0
14	7/28/95		0	0	0	0	0.5	0
15	7/29/95		0	0	0	0	0.5	0
TOTAL			0	0	0	0	1	0

CHALLENGE

7/14/95
7/17/95
7/18/95

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SDJ #19EB
AGE: 44
RACE: W
SEX: M

SPONSOR: EXXON
STUDY: HIM95-E-I-1
INVESTIGATOR: HOWARD MAIBACH,M.D.
DATE: 7/14/95 - 8/18/95

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE	SITE	SITE	SITE	SITE	SITE
			1	2	3	4	5	6
0	7/14/95		*	*	*	*	*	*
1	7/17/95							
2	7/18/95							
3	7/19/95							
4	7/20/95							
5	7/21/95							
6	7/24/95							
7	7/25/95							
8	7/26/95							
9	7/27/95							
10	7/28/95							
11	7/31/95							
12	8/1/95							
13	8/2/95							
14	8/3/95							
15	8/4/95							
TOTAL								
CHALLENGE								
8/14/95								
8/17/95								
8/18/95								
TOTAL								

CANCEL

21 DAY IRRITANT TEST

SPONSOR: EXXON

SUBJ. #20 PH

STUDY: HIM95-E-I-1

AGE: 40

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: W

DATE: 7/14/95 - 8/18/95

SEX: F

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE	SITE	SITE	SITE	SITE	SITE
			1	2	3	4	5	6
0	7/14/95		*	*	*	*	*	*
1	7/17/95							
2	7/18/95							
3	7/19/95							
4	7/20/95							
5	7/21/95							
6	7/24/95							
7	7/25/95							
8	7/26/95							
9	7/27/95							
10	7/28/95							
11	7/31/95							
12	8/1/95							
13	8/2/95							
14	8/3/95							
15	8/4/95							

CANCEL

TOTAL**CHALLENGE**

- 1 8/14/95
- 2 8/17/95
- 3 8/18/95

TOTAL

21 DAY IRRITANT TEST

SPONSOR: EXXON

SUBJ #21 IM

STUDY: HIM95-E-I-1

AGE: 22

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: H

DATE: 7/14/95 - 8/18/95

SEX: F

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0	0
6	7/24/95	0	0	0	0	0	0	0
7	7/25/95	0	0	0	0	0	0	0
8	7/26/95	0	0	0	0	0	0	0
9	7/27/95	0	0	0	0	0	0	0
10	7/28/95	0	0	0	0	0	0	0
11	7/31/95	0	0	0	0	0	0	0
12	8/1/95	0	0	0	0	0	0	0
13	8/2/95	0	0	0	0	0	0	0
14	8/3/95	0	0	0	0	0	0	0
15	8/4/95	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0	0	0
CHALLENGE		*	*	*	*	*	*	*
	8/14/95	0	0	0	0	0	0	0
	8/17/95	0	0	0	0	0	0	0
	8/18/95	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0	0	0

21 DAY IRRITANT TEST

SPONSOR: EXXON

SBJ: #23MR

STUDY: HIM95-E-I-1

AGE: 40

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: H

DATE: 7/14/95 - 8/18/95

SEX: F

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY DATE PATCH

		SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6
0	7/14/95	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0
6	7/24/95	0	0	0	0	0	0
7	7/25/95	0	0	0	0	0	0
8	7/26/95	0	0	0	0	0	0
9	7/27/95	0	0	0	0	0	0
10	7/28/95	0	0	0	0	0	0
11	7/31/95	0	0	0	0	0	0
12	8/1/95	0	0	0	0	0	0
13	8/2/95	0	0	0	0	0	0
14	8/3/95	0	0	0	0	0	0
15	8/4/95	0	0	0	0	0	0
TOTAL		0	0	0	0	0	0

CHALLENGE

8/14/95

8/17/95

8/18/95

	*	*	*	*	*	*
	0	0	0	1	0	0
	0	0	0	1	0	0

TOTAL

0	0	0	2	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

SBJ #22 YZ

STUDY: HIM95-E-1-1

AGE: 19

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: H

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0.5	0.5	0	0
5	7/21/95	0	0	0	0.5	0.5	0	0
6	7/24/95	0	0	0	0.5	0.5	0	0
7	7/25/95	0	0	0	0.5	0.5	0	0
8	7/26/95	0	0	0	0.5	0.5	0	0
9	7/27/95	0	0	0	0.5	0.5	0	0
10	7/28/95	0	0	0	0.5	0.5	0	0
11	7/31/95	0	0	0	0.5	0.5	0	0
12	8/1/95	0	0	0	0.5	0.5	0	0
13	8/2/95	0	0	0	0.5	0.5	0	0
14	8/3/95	0	0	0	0.5	0.5	0	0
15	8/4/95	0	0	0	0.5	0.5	0	0
TOTAL			0	0	0	6	6	0

CHALLENGE

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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21 DAY IRRITANT TEST

SPONSOR: EXXON

SBJ: #24RR

STUDY: HIM95-E-1-1

AGE: 38

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: W

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 25% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16

VISUAL SCORE

DAY	DATE	PATCH	SITE	SITE	SITE	SITE	SITE	
			1	2	3	4	5	6
0	7/14/95		*	*	*	*	*	*
1	7/17/95							
2	7/18/95							
3	7/19/95							
4	7/20/95							
5	7/21/95							
6	7/24/95							
7	7/25/95							
8	7/26/95							
9	7/27/95							
10	7/28/95							
11	7/31/95							
12	8/1/95							
13	8/2/95							
14	8/3/95							
15	8/4/95							

CANCEL

TOTAL**CHALLENGE**

8/14/95

8/17/95

8/18/95

TOTAL

21 DAY IRRITANT TEST

SPONSOR: EXXON

SEJ. #25 LP

STUDY: HIM95-E-I-1

AGE: 35

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: W

DATE: 7/14/95 - 8/18/95

SEX: F

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE					
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	1	0	0	0
3	7/19/95	0	0	0	2	0	0	0
4	7/20/95	0	0	0	2	0	0	0
5	7/21/95	0	0	0	2	0	0	0
6	7/24/95	0	0	0	2	1	0	0
7	7/25/95	0	0	0	2	1	0	0
8	7/26/95	0	0	0	2	1	0	0
9	7/27/95	0	0	0	2	1	0	0
10	7/28/95	0	0	0	2	1	0	0
11	7/31/95	0	0	0	2	1	0	0
12	8/1/95	0	0	0	2	1	0	0
13	8/2/95	0	0	0	2	1	0	0
14	8/3/95	0	0	0	2	1	0	0
15	8/4/95	0	0	0	2	1	0	0
TOTAL			0	0	0	27	10	0
CHALLENGE			*	*	*	*	*	*
8/14/95			0	0	0	0	0	0
8/17/95			0	0	0	0	0	0
8/18/95			0	0	0	0	0	0
TOTAL			0	0	0	0	0	0

21 DAY IRRITANT TEST

SPONSOR: EXXON

SUBJ: #26 HR

STUDY: HIM95-E-I-1

AGE: 20

INVESTIGATOR: HOWARD MAIBACH,M.D.

RACE: H

DATE: 7/14/95 - 8/18/95

SEX: M

FORMULATION IDENTIFICATION**SITE**

- 1 5% NORPAR IN MINERAL OIL
- 2 10% NORPAR IN MINERAL OIL
- 3 20% NORPAR IN MINERAL OIL
- 4 75% NORPAR IN MINERAL OIL
- 5 VASELINE INTENSIVE CARE AS IS
- 6 MINERAL OIL (LOT # 0923-2492-16)

VISUAL SCORE

DAY	DATE	PATCH	SITE	SITE	SITE	SITE	SITE	
			1	2	3	4	5	6
0	7/14/95	*	*	*	*	*	*	*
1	7/17/95	0	0	0	0	0	0	0
2	7/18/95	0	0	0	0	0	0	0
3	7/19/95	0	0	0	0	0	0	0
4	7/20/95	0	0	0	0	0	0	0
5	7/21/95	0	0	0	0	0	0	0
6	7/24/95	0	0	0	0	0	0	0
7	7/25/95	0	0	0	0	0	0	0
8	7/26/95	0	0	0	0	0	0	0
9	7/27/95	0	0	0	0	0	0	0
10	7/28/95	0	0	0	0	0	0	0
11	7/31/95	0	0	0	0	0	0	0
12	8/1/95	0	0	0	0	0	0	0
13	8/2/95	0	0	0	0	0	0	0
14	8/3/95	0	0	0	0	0	0	0
15	8/4/95	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0	0	0

CHALLENGE

8/14/95
8/17/95
8/18/95

*	*	*	*	*	*
0	0	0	0	0	0
0	0	0	0	0	0

TOTAL

0	0	0	0	0	0
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Retest

SEJ: #23 MR

AGE: 40

RACE: H

SEX: F

SPONSOR: EXXON

STUDY: HIM95-E-I-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 7/14/95 - 8/18/95

FORMULATION IDENTIFICATION

SITE

4 7.5% NORPAR IN MINERAL OIL

VISUAL SCORE

DAY	DATE	PATCH	SITE
			4
0	8/18/95	*	
1	8/21/95	0	
2	8/22/95	0	

MODIFIED DRAIZE SKIN SENSITIZATION STUDY

NORPAR 15

PURPOSE: To evaluate for irritation and sensitization in a repeat insult patch test on human subjects, the test materials listed below. The method is that of Draize.

TEST MATERIALS: Test and control articles, as indicated, are furnished by the sponsor. They are identified:

- 1.) 25% Norpar in Mineral Oil 2.) 100% Mineral Oil

The sponsor assumes responsibility for any necessary evaluations for purity, strength, and stability.

STORAGE CONDITIONS: Room Temperature (68-72° F)

PREPARATION
FOR DOSING: as above

SPONSOR: Exxon Biomedical Sciences
Metters Road, CN 2350
East Millstone NJ 08875-2350

TESTING FACILITY: Howard I. Maibach, M.D.
Dermatology Research
San Francisco, CA 94143-0989

STARTING DATE: December 4, 1995

COMPLETION DATE: January 12, 1996

SUBJECTS: 109 adult subjects (over 18 years of age) were recruited and, prior to commencement of the study, were examined and deemed to be free of any active skin pathology. Medical histories and consent forms are obtained from all subjects.

STUDY MONITOR: Dr. Deborah A. Barsotti

METHODS: The study is performed by modification of the procedure set forth by Draize.* The test patches are moistened with approximately 0.2 ml of the test material and adequately secured to the skin by means of occlusive bandage. The patch is an occlusive plastic chamber (Hilltop, Cincinnati, OH) held in place with paper tape (Scampore, Norgeplaster, Oslo, Sweden).

Patches of the test materials are applied to the upper arms or backs of all panelists. The samples are applied to the patches shortly before application to the panelists' skin.

The study is performed in approximately a six-week period for each subject. During the first three weeks, or the induction period, patches are applied thrice weekly. Patches applied on Mondays and Wednesdays are removed after 48 hours. Patches applied on Friday are removed after 72 hours. The panelists are instructed to leave the patches on and keep them dry following each application.

All applications of samples are made to the same site.

Approximately two weeks after the induction phase, a single challenge or elicitation application is made. The patch is applied to a previously unpatched site. The challenge patches are removed 72 hours following applications. Reactions to the challenge applications are scored at 96 hours following applications.

The scoring scale employed for all evaluations is as follows:

G = minimal glazing, such as in the "peau d'orange"

O = negative

+ = equivocal reaction (0.5)

1 = erythema

2 = erythema and induration

3 = erythema, induration and vesicles

4 = erythema, induration and bullae

DATA RETENTION:

The raw data and the original of the final report will be on file at the laboratory for not less than two years. Unused test articles will be returned to sponsor unless otherwise requested.

REFERENCE:

*Marzulli, F. & Maibach, H. CONTACT ALLERGY: PREDICTIVE TESTING IN HUMANS. Advances in Modern Toxicology 4:353-372, 1977.

CONCLUSIONS:

There was no evidence of irritation, or of the induction or elicitation of allergic contact dermatitis with these test samples in any of the 105 subjects. There were no drop outs for toxicity related reasons.

On the basis of these findings, Norpar 15 is not considered to be a skin sensitizer in this assay.

Study Director

 1-27-96
DATE

DRAIZE TEST

STUDY: HIM95-E-D-1

SPONSOR: EXXON

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION

SITE

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

109 SUBJECTS STARTED TEST

105 SUBJECTS FINISHED TEST

96MRL51

DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

SUMMARY**INDUCTION****CHALLENGE****SUE***

1 CT

	SITE 1	SITE 2
1 CT	0	0
2 RS	0	0
3 VB	0	0
4 CG	0	0
5 JF	0	0
6 JA	0	0
7 DL	0	0
8 EM	0	0
9 KM	0	0
10 DD	0	0
11 CH	0	0
12 SL	0	0
13 CF	0	0
14 PG	0	0
15 CV	0	0
16 AD	0	0
17 RO	0	0
18 MU	0	0
19 AG	0	0
20 LP	0	0
21 HH	0	0
22 AC	0	0
23 CR	0	0
24 CA	0	0
25 SR	0	0
26 JC	0	0
27 EM	0	0
28 PV	0	0

	SITE 1	SITE 2
1 CT	0	0
2 RS	0	0
3 VB	0	0
4 CG	0	0
5 JF	0	0
6 JA	0	0
7 DL	0	0
8 EM	0	0
9 KM	0	0
10 DD	0	0
11 CH	0	0
12 SL	0	0
13 CF	0	0
14 PG	0	0
15 CV	0	0
16 AD	0	0
17 RO	0	0
18 MU	0	0
19 AG	0	0
20 LP	0	0
21 HH	0	0
22 AC	0	0
23 CR	0	0
24 CA	0	0
25 SR	0	0
26 JC	0	0
27 EM	0	0
28 PV	0	0

29 VH
30 HB
31 DW
32 LG
33 VA
34 VR
35 CW
36 KC
37 TT
38 PW
39 JC
40 BD
41 VH
42 TS
43 DD
44 MG
45 MM
46 AL
47 WS
48 TC
49 AC
50 ML
51 KL
52 MS
53 RS
54 AG

DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

SBJ: #1 CT
AGE: 59
RACE: W
SEX: M

SBJ: #2 MS
AGE: 49
RACE: W
SEX: F

SBJ: #3 VB
AGE: 75
RACE: B
SEX: F

SBJ: #4 CG
AGE: 45
RACE: W
SEX: F

VISUAL SCORE

DAY	DATE	PATCH	SITE	SITE	SITE	SITE	SITE	
			1	2	1	2	1	2
0	12/4/95	*	*		*	*		*
1	12/6/95	0	0	0	0	0	0	0
2	12/8/95	0	0	0	0	0	0	0
3	12/11/95	0	0	0	0	0	0	0
4	12/13/95	0	0	0	0	0	0	0
5	12/15/95	0	0	0	0	0	0	0
6	12/18/95	0	0	0	0	0	0	0
7	12/20/95	0	0	0	0	0	0	0
8	12/22/95	0	0	0	0	0	0	0
9	12/26/95	0	0	0	0	0	0	0
TOTAL			0	0	0	0	0	0

CHALLENGE

	DATE	SITE	SITE	SITE	SITE
10	1/8/96	*	*	*	*
11	1/11/96	0	0	0	0
12	1/12/96	0	0	0	0
TOTAL		0	0	0	0

DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #5 JF
AGE: 60
RACE: B
SEX: F

SBJ: #6 JA
AGE: 58
RACE: W
SEX: M

SBJ: #7 OL
AGE: 52
RACE: W
SEX: M

SBJ: #8 EM
AGE: 68
RACE: W
SEX: M

VISUAL SCORE

DAY DATE PATCH

0	12/4/95	*	*
1	12/6/95	0	0
2	12/8/95	0	0
3	12/11/95	0	0
4	12/13/95	0	0
5	12/15/95	0	0
6	12/18/95	0	0
7	12/20/95	0	0
8	12/22/95	0	0
9	12/26/95	0	0

SITE	SITE
1	2
*	*
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

SITE	SITE
1	2
*	*
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

SITE	SITE
1	2
*	*
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

SITE	SITE
1	2
*	*
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

TOTAL

0	0
---	---

0	0
---	---

0	0
---	---

0	0
---	---

CHALLENGE

10 1/8/96
 11 1/11/96
 12 1/12/96

*	*
0	0
*	*
0	0
0	0

*	*
0	0
*	*
0	0
0	0

*	*
0	0
*	*
0	0
0	0

*	*
0	0
*	*
0	0
0	0

TOTAL

0	0
---	---

0	0
---	---

0	0
---	---

0	0
---	---

DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #9 KM
AGE: 37
RACE: W
SEX: F

SBJ: #10 DD
AGE: 56
RACE: O
SEX: M

SBJ: #11 BH
AGE: 48
RACE: B
SEX: F

SBJ: #12 SL
AGE: 44
RACE: B
SEX: F

VISUAL SCORE

SITE 1 SITE 2

SITE 1 SITE 2

SITE 1 SITE 2

SITE 1 SITE 2

DAY DATE PATCH

0	12/4/95
1	12/6/95
2	12/8/95
3	12/11/95
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5	12/15/95
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7	12/20/95
8	12/22/95
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CHALLENGE
10 1/8/96
11 1/11/96
12 1/12/96

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH, M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #13 CF
AGE: 64
RACE: W
SEX: M

SBJ: #14 PG
AGE: 44
RACE: W
SEX: F

SBJ: #15 CV
AGE: 30
RACE: W
SEX: F

SBJ: #16 AO
AGE: 62
RACE: W
SEX: F

VISUAL SCORE

DAY DATE PATCH

0 12/4/95
1 12/6/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
6 12/18/95
7 12/20/95
8 12/22/95
9 12/26/95

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CHALLENGE

10 1/8/96
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12 1/12/96

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORF AR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #17 RO
AGE: 35
RACE: W
SEX: M

SBJ: #18 MU
AGE: 31
RACE: W
SEX: F

SBJ: #19 AG
AGE: 53
RACE: B
SEX: F

SBJ: #20 LP
AGE: 75
RACE: W
SEX: M

VISUAL SCORESITE SITE
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1 2SITE SITE
1 2SITE SITE
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DAY DATE PATCH

0 12/4/95
1 12/6/95
2 12/8/95
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5 12/15/95
6 12/18/95
7 12/20/95
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CHALLENGE

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TOTAL

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH, M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #21 MH
AGE: 45
RACE: W
SEX: M

SBJ: #22 AC
AGE: 34
RACE: H
SEX: F

SBJ: #23 GR
AGE: 27
RACE: H
SEX: M

SBJ: #24 CA
AGE: 35
RACE: H
SEX: M

VISUAL SCORE

DAY DATE PATCH

0	12/4/95
1	12/6/95
2	12/8/95
3	12/11/95
4	12/13/95
5	12/15/95
6	12/18/95
7	12/20/95
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CHALLENGE

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #25JR
AGE: 26
RACE: H
SEX: F**SBJ: #26 JC**
AGE: 38
RACE: H
SEX: F**SBJ: #27 EM**
AGE: 42
RACE: W
SEX: F**SBJ: #28 RY**
AGE: 47
RACE: H
SEX: M**VISUAL SCORE**SITE SITE
1 2SITE SITE
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1 2SITE SITE
1 2**DAY DATE PATCH**0 12/4/95
1 12/6/95
2 12/8/95
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CHALLENGE10 1/8/96
11 1/11/96
12 1/12/96

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TOTAL

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #29 YM
AGE: 43
RACE: W
SEX: F

SBJ: #30 HB
AGE: 63
RACE: B
SEX: M

SBJ: #31 DW
AGE: 37
RACE: W
SEX: M

SBJ: #32 LG
AGE: 42
RACE: B
SEX: F

VISUAL SCORE

DAY DATE PATCH

0	12/4/95	
1	12/6/95	
2	12/8/95	
3	12/11/95	
4	12/13/95	
5	12/15/95	
6	12/18/95	
7	12/20/95	
8	12/22/95	
9	12/26/95	

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CHALLENGE

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11	1/11/96
12	1/12/96

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1
INVESTIGATOR: HOWARD MAIBACH, M.D.
DATE: 12/4/95 - 1/12/96**FORMULATION IDENTIFICATION****SITE**

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

SBJ: #33 VA
AGE: 40
RACE: B
SEX: F

SBJ: #34 VR
AGE: 51
RACE: B
SEX: M

SBJ: #35 CW
AGE: 51
RACE: B
SEX: M

SBJ: #36 KC
AGE: 27
RACE: B
SEX: F

VISUAL SCORE

DAY DATE PATCH

0 12/4/95
1 12/6/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
6 12/18/95
7 12/20/95
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CHALLENGE

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12 1/12/96

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DRAIZE TEST

SPONSOR: EXXON
STUDY: HIM95-E-D-1
INVESTIGATOR: HOWARD MAIBACH,M.D.
DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

SBJ: #37 TT
AGE: 30
RACE: B
SEX: M

SBJ: #38 PW
AGE: 36
RACE: W
SEX: M

SBJ: #39 JQ
AGE: 59
RACE: W
SEX: F

SBJ: #40 BD
AGE: 50
RACE: W
SEX: M

VISUAL SCORE

DAY DATE PATCH
0 12/4/95
1 12/6/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
6 12/18/95
7 12/20/95
8 12/22/95
9 12/26/95

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CHALLENGE

10 1/8/96
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12 1/12/96

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #41 VH
AGE: 42
RACE: W
SEX: M

SBJ: #42 TS
AGE: 42
RACE: W
SEX: F

SBJ: #43 GG
AGE: 48
RACE: W
SEX: M

SBJ: #44 MG
AGE: 45
RACE: H
SEX: F

VISUAL SCORE

SITE 1 SITE 2

SITE 1 SITE 2

SITE 1 SITE 2

SITE 1 SITE 2

DAY DATE PATCH

0	12/4/95	*	*
1	12/6/95	0	0
2	12/8/95	0	0
3	12/11/95	0	0
4	12/13/95	0	0
5	12/15/95	0	0
6	12/18/95	0	0
7	12/20/95	0	0
8	12/22/95	0	0
9	12/26/95	0	0

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CHALLENGE

10	1/8/96	*	*
11	1/11/96	0	0
12	1/12/96	0	0

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #45 MM
AGE: 42
RACE: W
SEX: M

SBJ: #46 AL
AGE: 40
RACE: H
SEX: F

SBJ: #47 WS
AGE: 40
RACE: W
SEX: M

SBJ: #48 TC
AGE: 40
RACE: W
SEX: F

VISUAL SCORE

DAY	DATE	PATCH	SITE	SITE	SITE	SITE	SITE	
			1	2	1	2	1	2
0	12/4/95		*	*	*	*	*	*
1	12/6/95		0	0	0	0	0	0
2	12/8/95		0	0	0	0	0	0
3	12/11/95		0	0	0	0	0	0
4	12/13/95		0	0	0	0	0	0
5	12/15/95		0	0	0	0	0	0
6	12/18/95		0	0	0	0	0	0
7	12/20/95		0	0	0	0	0	0
8	12/22/95		0	0	0	0	0	0
9	12/26/95		0	0	0	0	0	0
TOTAL			0	0	0	0	0	0
CHALLENGE			*	*	*	*	*	*
10	1/6/96		0	0	0	0	0	0
11	1/11/96		0	0	0	0	0	0
12	1/12/96		0	0	0	0	0	0
TOTAL			0	0	0	0	0	0

DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #49 AC
AGE: 44
RACE: W
SEX: M

SBJ: #50 ML
AGE: 48
RACE: W
SEX: M

SBJ: #51 KL
AGE: 21
RACE: H
SEX: F

SBJ: #52 MS
AGE: 40
RACE: H
SEX: F

VISUAL SCORE

DAY DATE PATCH

0	12/4/95	*	*
1	12/6/95	0	0
2	12/8/95	0	0
3	12/11/95	0	0
4	12/13/95	0	0
5	12/15/95	0	0
6	12/18/95	0	0
7	12/20/95	0	0
8	12/22/95	0	0
9	12/26/95	0	0

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CHALLENGE

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH, M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

SBJ: #53 RS
AGE: 48
RACE: H
SEX: F

SBJ: #54 AS
AGE: 35
RACE: W
SEX: F

SBJ: #55 ND
AGE: 45
RACE: W
SEX: F

SBJ: #56 HL
AGE: 51
RACE: W
SEX: M

VISUAL SCORE

SITE SITE
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DAY DATE PATCH

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CHALLENGE

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TOTAL

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #57 EL
AGE: 44
RACE: W
SEX: F

SBJ: #58 BB
AGE: 45
RACE: W
SEX: M

SBJ: #59 EE
AGE: 40
RACE: W
SEX: M

SBJ: #60 JC
AGE: 45
RACE: H
SEX: M

VISUAL SCORE

DAY	DATE	PATCH
0	12/4/95	*
1	12/5/95	0
2	12/6/95	0
3	12/7/95	0
4	12/8/95	0
5	12/9/95	0
6	12/10/95	0
7	12/11/95	0
8	12/12/95	0
9	12/13/95	0

SITE	SITE
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SITE	SITE
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SITE	SITE
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TOTAL

C C

C C

C C

C C

CHALLENGE

10	1/8/96
11	1/11/96
12	1/12/96

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SITE	SITE
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SITE	SITE
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SITE	SITE
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TOTAL

C C

C C

C C

C C

DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #6156
AGE: 38
RACE: H
SEX: F**SBJ: #62 CH**
AGE: 47
RACE: B
SEX: F**SBJ: #63 FH**
AGE: 74
RACE: W
SEX: M**SBJ: #64 JS**
AGE: 45
RACE: B
SEX: M**VISUAL SCORE**SITE SITE
1 2SITE SITE
1 2SITE SITE
1 2SITE SITE
1 2**DAY DATE PATCH**0 12/4/95
1 12/5/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
6 12/18/95
7 12/20/95
8 12/22/95
9 12/26/95

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TOTAL

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CHALLENGE10 1/8/96
11 1/11/96
12 1/12/96

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TOTAL

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #65 FZ
AGE: 35
RACE: W
SEX: M**SBJ: #66 FT**
AGE: 27
RACE: B
SEX: M**SBJ: #67 CS**
AGE: 41
RACE: H
SEX: M**SBJ: #68 JP**
AGE: 66
RACE: W
SEX: F**VISUAL SCORE****DAY DATE PATCH**
0 12/4/95 * *
1 12/6/95 0 0
2 12/8/95 0 0
3 12/11/95 0 0
4 12/13/95 0 0
5 12/15/95 0 0
6 12/18/95 0 0
7 12/20/95 0 0
8 12/22/95 0 0
9 12/26/95 0 0

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SITE SITE
1 2SITE SITE
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1 2**TOTAL**

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CANCEL

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CHALLENGE**10 1/8/96**
11 1/11/96
12 1/12/96

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH, M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

SBJ: #69 PB
AGE: 73
RACE: W
SEX: F

SBJ: #70 MM
AGE: 30
RACE: H
SEX: F

SBJ: #71 VB
AGE: 64
RACE: W
SEX: F

SBJ: #72 WB
AGE: 48
RACE: W
SEX: M

VISUAL SCORE

DAY DATE PATCH

0 12/4/95
1 12/6/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
6 12/18/95
7 12/20/95
8 12/22/95
9 12/26/95

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CHALLENGE

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11 1/11/96
12 1/12/96

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TOTAL

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #73 JD
AGE: 32
RACE: W
SEX: M

SBJ: #74 RW
AGE: 40
RACE: W
SEX: M

SBJ: #75 TB
AGE: 43
RACE: W
SEX: M

SBJ: #76 AC
AGE: 35
RACE: H
SEX: F

VISUAL SCORESITE SITE
1 2SITE SITE
1 2SITE SITE
1 2SITE SITE
1 2

DAY DATE PATCH

0 12/4/95
1 12/6/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
6 12/18/95
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CHALLENGE

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TOTAL

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DRAIZE TEST

SPONSOR: EXXON
STUDY: HIM95-E-D-1
INVESTIGATOR: HOWARD MAIBACH,M.D.
DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #77 DC
AGE: 45
RACE: W
SEX: M

SBJ: #78 RJ
AGE: 48
RACE: B
SEX: M

SBJ: #79 VG
AGE: 39
RACE: B
SEX: F

SBJ: #80 MD
AGE: 38
RACE: W
SEX: F

VISUAL SCORE

SITE SITE
1 2

SITE SITE
1 2

SITE SITE
1 2

SITE SITE
1 2

DAY DATE PATCH

0 12/4/95
1 12/6/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
6 12/18/95
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TOTAL

CANCEL

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CHALLENGE
10 1/8/96
11 1/11/96
12 1/12/96

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TOTAL

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #81 NC
AGE: 40
RACE: W
SEX: F**SBJ: #82 MW**
AGE: 46
RACE: W
SEX: F**SBJ: #83 KS**
AGE: 49
RACE: W
SEX: M**SBJ: #84 JF**
AGE: 40
RACE: B
SEX: F**VISUAL SCORE**SITE SITE
1 2SITE SITE
1 2SITE SITE
1 2SITE SITE
1 2

DAY DATE PATCH

0 12/4/95:
1 12/6/95:
2 12/8/95:
3 12/11/95:
4 12/13/95:
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CHALLENGE10 1/8/96:
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TOTAL

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

SBJ: #85 SD
AGE: 44
RACE: W
SEX: F

SBJ: #86 KP
AGE: 43
RACE: W
SEX: M

SBJ: #87 EC
AGE: 39
RACE: D
SEX: F

SBJ: #88 GM
AGE: 49
RACE: W
SEX: M

VISUAL SCORE

SITE SITE
1 2

SITE SITE
1 2

SITE SITE
1 2

SITE SITE
1 2

DAY DATE PATCH

0 12/4/95
1 12/6/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
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CHALLENGE

10 1/6/96
11 1/11/96
12 1/12/96

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #89 FM
AGE: 42
RACE: O
SEX: M

SBJ: #90 KH
AGE: 39
RACE: W
SEX: F

SBJ: #91 GN
AGE: 42
RACE: W
SEX: M

SBJ: #92 KW
AGE: 41
RACE: W
SEX: M

VISUAL SCORESITE SITE
1 2SITE SITE
1 2SITE SITE
1 2SITE SITE
1 2

DAY DATE PATCH

0	12/4/95
1	12/6/95
2	12/8/95
3	12/11/95
4	12/13/95
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6	12/18/95
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TOTAL

CANCEL

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CHALLENGE
10 1/6/96
11 1/11/96
12 1/12/96

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 2.5% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #93 LB
AGE: 70
RACE: W
SEX: F

SBJ: #94 TW
AGE: 37
RACE: W
SEX: M

SBJ: #95 EA
AGE: 46
RACE: W
SEX: F

SBJ: #96 EF
AGE: 65
RACE: W
SEX: F

VISUAL SCORESITE SITE
1 2SITE SITE
1 2SITE SITE
1 2SITE SITE
1 2

DAY DATE PATCH

0 12/4/95
1 12/6/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
6 12/18/95
7 12/20/95
8 12/22/95
9 12/26/95

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CHALLENGE

10 1/8/96
11 1/11/96
12 1/12/96

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TOTAL

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DRAIZE TEST

SPONSOR: EXXON
STUDY: HIM95-E-D-1
INVESTIGATOR: HOWARD MAIBACH,M.D.
DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

SBJ: #97
AGE: MU
RACE: 53
SEX: W

F

SBJ: #98 XU
AGE: 34
RACE: H
SEX: F

F

SBJ: #99 PW
AGE: 46
RACE: W
SEX: F

F

SBJ: #100 PC
AGE: 40
RACE: H
SEX: M

F

VISUAL SCORE

DAY DATE PATCH

0 12/4/95
1 12/6/95
2 12/8/95
3 12/11/95
4 12/13/95
5 12/15/95
6 12/18/95
7 12/20/95
8 12/22/95
9 12/26/95

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CHALLENGE

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12 1/12/96

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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% MORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #101 JC
AGE: 43
RACE: W
SEX: F

F

SBJ: #102 GL
AGE: 43
RACE: D
SEX: M

SBJ: #103 CR
AGE: 23
RACE: H
SEX: F

SBJ: #104 PC
AGE: 43
RACE: W
SEX: M

VISUAL SCORE

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SITE 1 SITE 2

SITE 1 SITE 2

SITE 1 SITE 2

DAY DATE PATCH

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CHALLENGE
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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

1 25% NORPAR IN MINERAL OIL

2 100% MINERAL OIL

SBJ: #105 EV
AGE: 49
RACE: H
SEX: F
F

SBJ: #106 MV
AGE: 76
RACE: H
SEX: F

SBJ: #107 RW
AGE: 44
RACE: B
SEX: F

SBJ: #108 DJ
AGE: 43
RACE: B
SEX: M

VISUAL SCORE

DAY DATE PATCH

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0	0
0	0
0	0

TOTAL

0	0
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0	0
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0	0
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0	0
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CHALLENGE

10 1/8/96
11 1/11/96
12 1/12/96

*	*
0	0
0	0

*	*
0	0
0	0

*	*
0	0
0	0

*	*
0	0
0	0

TOTAL

0	0
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0	0
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0	0
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0	0
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DRAIZE TEST

SPONSOR: EXXON

STUDY: HIM95-E-D-1

INVESTIGATOR: HOWARD MAIBACH,M.D.

DATE: 12/4/95 - 1/12/96

FORMULATION IDENTIFICATION**SITE**

- 1 25% NORPAR IN MINERAL OIL
- 2 100% MINERAL OIL

SBJ: #109 HK
AGE: 63
RACE: 0
SEX: M

F

VISUAL SCORE

SITE SITE
1 2

DAY DATE PATCH

0	12/4/95	*	*
1	12/6/95	0	0
2	12/8/95	0	0
3	12/11/95	0	0
4	12/13/95	0	0
5	12/15/95	0	0
6	12/18/95	0	0
7	12/20/95	0	0
8	12/22/95	0	0
9	12/26/95	0	0

TOTAL

0	0
---	---

CHALLENGE

10 1/6/96
11 1/11/96
12 1/12/96

*	*
0	0
0	0

TOTAL

0	0
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Best Available Copy